

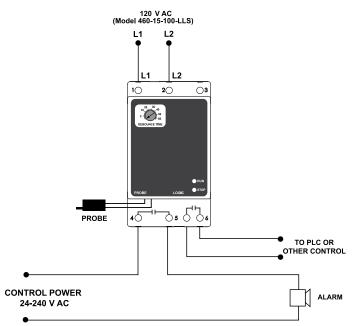
460-15-100-LLS

Single-Channel Liquid Level Sensor





Wiring Diagram



Description

The 460-15-100-LLS is a liquid level sensor to detect the presence of conductive liquids. A probe is mounted at the desired tank level and connected to the PumpSaver[®]. When the probe is submersed, the relay's output contacts will change state as soon as the debounce time expires. The adjustable debounce timer is intended to prevent nuisance actuating due to waves or splashing in the tank.

Relay logic can be inverted so the relay's output contacts change state when the probe is no longer submersed. This makes the unit versatile for use in pump-up and pump-down applications.

Features & Benefits

FEATURES	BENEFITS
Unique probe protection logic	Probes are protected from scale build up through pulsed dc signal between the probes
Invertible relay logic	Allows flexibility to be used in pump-up and pump-down applications
Adjustable debounce timer	Prevents nuisance actuating caused by waves or splashing in the tank
LED status indicators	Provides visual indication of the relay status

110/120 V ac nominal

timers by 20%)

5 V dc pulsed

2-60 seconds

100 kΩ

50/60 Hz (Note: 50 Hz will increase all delay

Specifications

Input Characteristics Control Voltage Frequency

Sensitivity

Functional Characteristics Probe Sense Voltage Debounce Time Delay Output Characteristics

Output contact Rating - (Two Form A - SPST)

Pilot Duty 360 VA @ 240 V ac **General Purpose** 8 A @ 240 V ac

General Characteristics Ambient Temperature Range

Operating

Storage **Maximum Input Power Class of Protection Relative Humidity Terminal Torque** Wire

-40 °C to 70 °C (-40 °F to 158 °F) -40 °C to 80 °C (-40 °F to 176 °F) 2 W IP20, NEMA 1 (finger safe) 10-95 %, non-condensing per IEC 68-2-3 4.5 in.-lbs. 12-20 AWG

Standards Passed

Radio Frequency

Immunity, Radiated Fast Transient Burst

Electrostatic Discharge (ESD) IEC 61000-4-2, Level 3, 6 kV contact, 8 kV air

150 MHz, 10 V/m IEC 61000-4-4, Level 3, 3.5 kV input power and controls

460-15-100-LLS



Surge IEC

ANSI/IEEE

Hi-Potential Test Safety Marks UL CE Enclosure Dimensions

Weight Mounting Method IEC 61000-4-5, Level 3, 4 kV line-to-line; Level 4, 4 kV line-to-ground C62.41 Surge and Ring Wave Compliance to a level of 6 kV line-to-line Meets UL 508 (2 x rated V + 1000 V for 1 min.)

UL 508 (File #E68520) IEC 60947 Polycarbonate **H** 88.9 mm (3.5"); **W** 52.93 mm (2.08"); **D** 59.69mm (2.35") 1 lb. (16 oz., 453.59 g) 35 mm DIN rail or Surface Mount (#6 or #8 screws)

Mouser Electronics

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Littelfuse: 460-15-100-LLS